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| | <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i> | | |
| <input type="checkbox"/> | L4 | L3 and polyketide | 19 |
| <input type="checkbox"/> | L3 | L1 and galilaeus | 105 |
| <input type="checkbox"/> | L2 | L1 and galileaus | 0 |
| <input type="checkbox"/> | L1 | anthracyclin\$ or aclacinomycin\$ | 5376 |

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STN Search Summary
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FILE 'CAPLUS' ENTERED AT 13:10:38 ON 06 AUG 2004

L1 6994 S ANTHRACYCLIN? OR ACLACINOMYCIN
L2 123 S L1 AND GALILAEUS
L3 10 S L2 AND (GENE (5W) CLUSTER)
L4 12 S L2 AND (GENE (P) CLUSTER)
L5 16 S L2 AND POLYKETIDE
L6 8 S L5 NOT L4

L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:842858 CAPLUS
TI Expression, purification, and characterization of AknX anthrone oxygenase, which is involved in aklavinone biosynthesis in *Streptomyces galilaeus*
AU Chung, Jin-Young; Fujii, Isao; Harada, Shigeharu; Sankawa, Ushio; Ebizuka, Yutaka
SO Journal of Bacteriology (2002), 184(22), 6115-6122

L4 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:558724 CAPLUS
TI Cloning and characterization of *Streptomyces galilaeus* aclacinomycins polyketide synthase (PKS) cluster
AU Raty, Kaj; Kantola, Jaana; Hautala, Anne; Hakala, Juha; Ylihonko, Kristiina; Mantsala, Pekka
SO Gene (2002), 293(1-2), 115-122

L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:903205 CAPLUS
TI The entire nogalamycin biosynthetic gene cluster of *Streptomyces nogalater*: characterization of a 20-kb DNA region and generation of hybrid structures
AU Torkkell, S.; Kunnari, T.; Palmu, K.; Mantsala, P.; Hakala, J.; Ylihonko, K.Finland
SO Molecular Genetics and Genomics (2001), 266(2), 276-288

L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:247509 CAPLUS
TI The gene cluster involved in aclacinomycin biosynthesis in *Streptomyces galilaeus* and its use for genetic engineering
IN Ylihonko, Kristiina; Raty, Kaj; Hakala, Juha

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------|------|----------|-----------------|----------|
| WO 2001023578 | A1 | 20010405 | WO 2000-FI819 | 20000925 |
| FI 9902085 | A | 20010329 | FI 1999-2085 | 19990929 |
| EP 1133562 | A1 | 20010919 | EP 2000-960747 | 20000925 |
| JP 2003510081 | T2 | 20030318 | JP 2001-526960 | 20000925 |
| PRAI FI 1999-2085 | A | 19990929 | | |
| WO 2000-FI819 | W | 20000925 | | |

L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:702971 CAPLUS
TI A gene cluster from *Streptomyces galilaeus*
involved in glycosylation of aclarubicin
AU Raty, K.; Kunnari, T.; Hakala, J.; Mantsala, P.; Ylihonko, K.
SO Molecular and General Genetics (2000), 264(1-2), 164-172

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:291084 CAPLUS
TI Gene cluster involved in nogalamycin biosynthesis and
its use in production of hybrid antibiotics
IN Ylihonko, Kristiina; Torkkell, Sirke; Palmu, Kaisa; Hakala, Juha
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2000024775 A1 20000504 WO 1999-FI870 19991020
FI 9802295 A 20000424 FI 1998-2295 19981023
EP 1123310 A1 20010816 EP 1999-952669 19991020
JP 2002528068 T2 20020903 JP 2000-578345 19991020
PRAI FI 1998-2295 A 19981023
WO 1999-FI870 W 19991020

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:147550 CAPLUS
TI Elucidation of anthracyclinone biosynthesis by stepwise cloning
of genes for anthracyclines from three different *Streptomyces* spp.
AU Kantola, Jaana; Kunnari, Tero; Hautala, Anne; Hakala, Juha; Ylihonko,
Kristiina; Mantsala, Pekka
SO Microbiology (Reading, United Kingdom) (2000), 146(1), 155-163

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:701378 CAPLUS
TI Characterization of *Streptomyces nogalater* genes encoding enzymes involved
in glycosylation steps in nogalamycin biosynthesis
AU Torkkell, S.; Ylihonko, K.; Hakala, J.; Skurnik, M.; Mantsala, P.
SO Molecular & General Genetics (1997), 256(2), 203-209

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:525553 CAPLUS
TI Production of hybrid anthracycline antibiotics by heterologous
expression of *Streptomyces nogalater* nogalamycin biosynthesis genes
AU Ylihonko, Kristiina; Hakala, Juha; Kunnari, Tero; Mantsala, Pekka
SO Microbiology (Reading, United Kingdom) (1996), 142(8), 1965-1972

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:368294 CAPLUS
TI A gene cluster involved in nogalamycin biosynthesis
from *Streptomyces nogalater*: sequence analysis and complementation of
early-block mutations in the anthracycline pathway
AU Ylihonko, Kristiina; Tuikkanen, Jaana; Jussila, Sanna; Cong, Lina;
Mantsala, P.
SO Molecular & General Genetics (1996), 251(2), 113-120

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1995:560727 CAPLUS
 TI Nucleotide sequences and expression of genes from *Streptomyces purpurascens* that cause the production of new anthracyclines in *Streptomyces galilaeus*
 AU Niemi, Jarmo; Maentsaelae, Pekka
 SO Journal of Bacteriology (1995), 177(10), 2942-5

L6 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:193507 CAPLUS
 TI Studies on a second and third ring cyclization in anthracycline biosynthesis
 AU Hautala, Anne; Torkkell, Sirke; Raty, Kaj; Kunnari, Tero; Kantola, Jaana; Mantsala, Pekka; Hakala, Juha; Ylihonko, Kristiina
 SO Journal of Antibiotics (2003), 56(2), 143-153

L6 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:239009 CAPLUS
 TI Hybrid anthracyclines from a genetically engineered *Streptomyces galilaeus* mutant
 AU Kunnari, Tero J.; Ylihonko, Kristiina P. J.; Klika, Karel D.; Maentsaelae, Pekka I.; Hakala, Juha M. L.
 SO Journal of Organic Chemistry (2000), 65(10), 2851-2855

L6 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:745546 CAPLUS
 TI Folding of the polyketide chain is not dictated by minimal polyketide synthase in the biosynthesis of mithramycin and anthracycline
 AU Kantola, Jaana; Blanco, Gloria; Hautala, Anne; Kunnari, Tero; Hakala, Juha; Mendez, Carmen; Ylihonko, Kristiina; Mantsala, Pekka; Salas, Jose
 SO Chemistry & Biology (1997), 4(10), 751-755

L6 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1994:693943 CAPLUS
 TI Hybrid anthracycline antibiotics: production of new anthracyclines by cloned genes from *Streptomyces pupurascens* in *Streptomyces galilaeus*
 AU Niemi, Jarmo; Ylihonko, Kristiina; Hakala, Juha; Paerssinen, Raimo; Kopio, Anja; Maentsaelae, Pekka
 SO Microbiology (Reading, United Kingdom) (1994), 140(6), 1351-8

L6 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1992:565019 CAPLUS
 TI Cloning of aklavinone biosynthesis genes from *Streptomyces galilaeus*
 AU Tsukamoto, Naohiro; Fujii, Isao; Ebizuka, Yutaka; Sankawa, Ushio
 SO Journal of Antibiotics (1992), 45(8), 1286-94

L6 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1991:576081 CAPLUS
 TI Expression of polyketide biosynthesis and regulatory genes in heterologous streptomycetes
 AU Strohl, William R.; Bartel, Paul L.; Li, Yun; Connors, Neal C.; Woodman, Robert H.
 SO Journal of Industrial Microbiology (1991), 7(3), 163-74
 DT Journal; General Review

L6 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:118301 CAPLUS
TI Biosynthesis of pigments via the polyketide pathway as a way to regulate
the oxidative metabolism of Streptomyces cultures producing these pigments
AU Trutko, S. M.; Akimenko, V. K.
SO Mikrobiologiya (1990), 59(6), 942-7
LA Russian

L6 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1990:625703 CAPLUS
TI Biosynthesis of anthraquinones by interspecies cloning of actinorhodin
biosynthesis genes in streptomyces: clarification of actinorhodin gene
functions
AU Bartel, Paul L.; Zhu, Chunbao; Lampel, Jay S.; Dosch, Donald C.; Connors,
Neal C.; Strohl, William R.; Beale, John M., Jr.; Floss, Heinz G.
SO Journal of Bacteriology (1990), 172(9), 4816-26